

SHARP

Owner's Manual
Bedienungsanleitung
Mode d'emploi
Brukssanvisning
Manuale delle Istruzioni
Manual de Instrucciones
Eigenaars Handboek

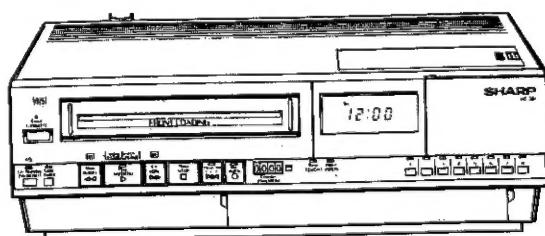
VHS
 PAL

Colour Video Cassette Recorder
Farb-Videocassettenrecorder
Magnétoscope à Cassette Couleur
Fargvideobandspelare
Videoregistratore a Cassette Colori
Videocassette en Color
Kleuren Video Cassette Rekorder

Model Modello
 Modell Modelo
 Modèle Model
 Modell

VC-381 **GS/GB/N/S**

ENGLISH	1 ~ 23
DEUTSCH	24 ~ 45
FRANCAIS	46 ~ 67
SVENSKA	68 ~ 89
ITALIAÑO	90 ~ 111
ESPAÑOL	112 ~ 133
DUTCH	134 ~ 155



This apparatus complies with requirements of
BS 800 and EEC directive 76/889/EEC.

Das Apparat stimmt mit den Bedingungen der
EG-Richtlinien 76/889/EWG überein.

Cet appareil répond aux specifications de la
directive CCE 76/889/CCE.

Dit apparaat voldoet aan de vereisten van EEG-
reglementen 76/889/EEG.

Apparatet opfylder kravene i EF direktivet
76/889/EF.

Quest'apparecchio è stato prodotto in conformità
alle direttive CEE 76/889/CEE.

ENGLISH

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■ Important

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant law in your country. With this Video Cassette Recorder, only use cassettes marked



■ Power switch

The mains switch is located on the rear panel. Setting this switch to off completely disconnects the power supply from the set, including the timer clock. To operate the VTR turn the mains switch on and the "On-Standby" switch located on the VTR front panel, to the "ON" position (Indicator lights up).

■ Warning

To avoid fire or electric shock, do not expose this unit to rain or moisture.

■ Caution

Do not attempt to open the cabinet. There are no parts you can service inside. Refer all servicing to qualified service personnel.

■ Precautions

1. Slots and openings in the cabinet and at the side or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating these openings must not be blocked or covered. Avoid enclosed spaces such as book cases unless proper ventilation is provided.
2. Keep the unit away from radiators or heat sources.
3. Avoid using near strong magnetic fields.
4. Do not push objects of any kind into this unit through the cabinet slots as they could touch current-carrying parts or short-circuit parts resulting in a fire or electric shock.
5. Never spill liquid of any kind on this unit. If liquid is spilled into the unit, consult qualified service engineer.
6. Use this unit in horizontal (flat) position only.
7. When the dew indicator lights up the VTR unit does not operate. This is not an indication of trouble.

MOISTURE CONDENSATION

Avoid using this VTR immediately after moving from a cold place to a warm place or soon after heating a cold place or under conditions of high humidity. The water vapour in warm air will condense on the still cold video head drum and tape guides and may cause damage to tape and recorder.

■ Power supply

The operating voltage of this video cassette recorder. (VC-381 GS/GB/S/N) 220V, 50Hz only.

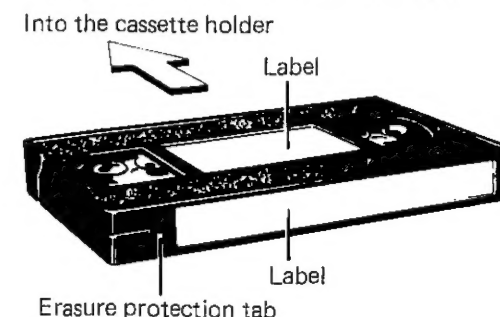
■ Features

1. Four hours recording and playback capability with tape E-240.
2. Sharp's original automatic new front loading system. (Cassette just slot in)
3. High speed "VIDEO SEARCH" system. (About ten times normal speed in forward and reverse direction)
4. Microprocessor controlled power assist drive mechanism with direct access soft touch operation of video tape recorder primary functions.
5. Built-in 7-days, 1-event programmable or 1-programme daily function timer with 24 hours indication fluorescent display clock.
6. Built-in 8-buttons VHF/UHF electronic tuner with AFT. (VC-381S 12 buttons)
7. Mechanical 4-digit tape counter. (without counter memory)
8. Built-in dew warning indicator with dew prevention heater.
9. Built-in picture "HARD-SOFT" control.
10. Built-in "TEST" signal generator for RF converter output channel adjust. ("TEST" signal "ON/OFF" switch located on the rear)
11. Built-in "Pause/Still-Video Search (Forward and Reverse) FF, Rew, Play, Stop" wired remote control connection jack. (on the rear)
12. Built-in still function. Freeze the picture on the screen to examine details of interesting or more complicated scenes.
13. Built in "Colour/Auto" manual selector.
14. Automatic "TV/Video" output signal selector. (on the front) (VTR play mode preference)
15. Built-in "Tuner/AUX" input signal selector. (on the front)
16. Automatic rewind system.
17. Built-in RF converter. (RF output channel: UHF 30 - 39 Ch)

VC-381GS/GB

- This VTR is capable of automatically recording "DDR broadcasts" (East German broadcasting).
- For playback of the "DDR broadcast" prerecorded tape, use a special TV set compatible with "DDR broadcasts".

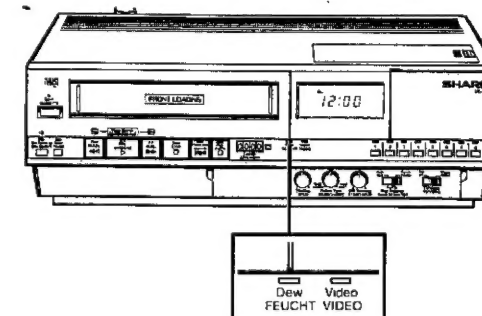
With this Video Cassette Recorder, only use cassettes marked **VHS**. When a new recording is made, the previous recording is erased. Cassettes are provided with an erasure protection tab to prevent accidental erasure or recording over a previously recorded cassette you may wish to keep permanently. When the tab is removed, recording cannot be performed. If you wish to record a cassette whose protection tab has already been removed, cover the hole with adhesive tape.



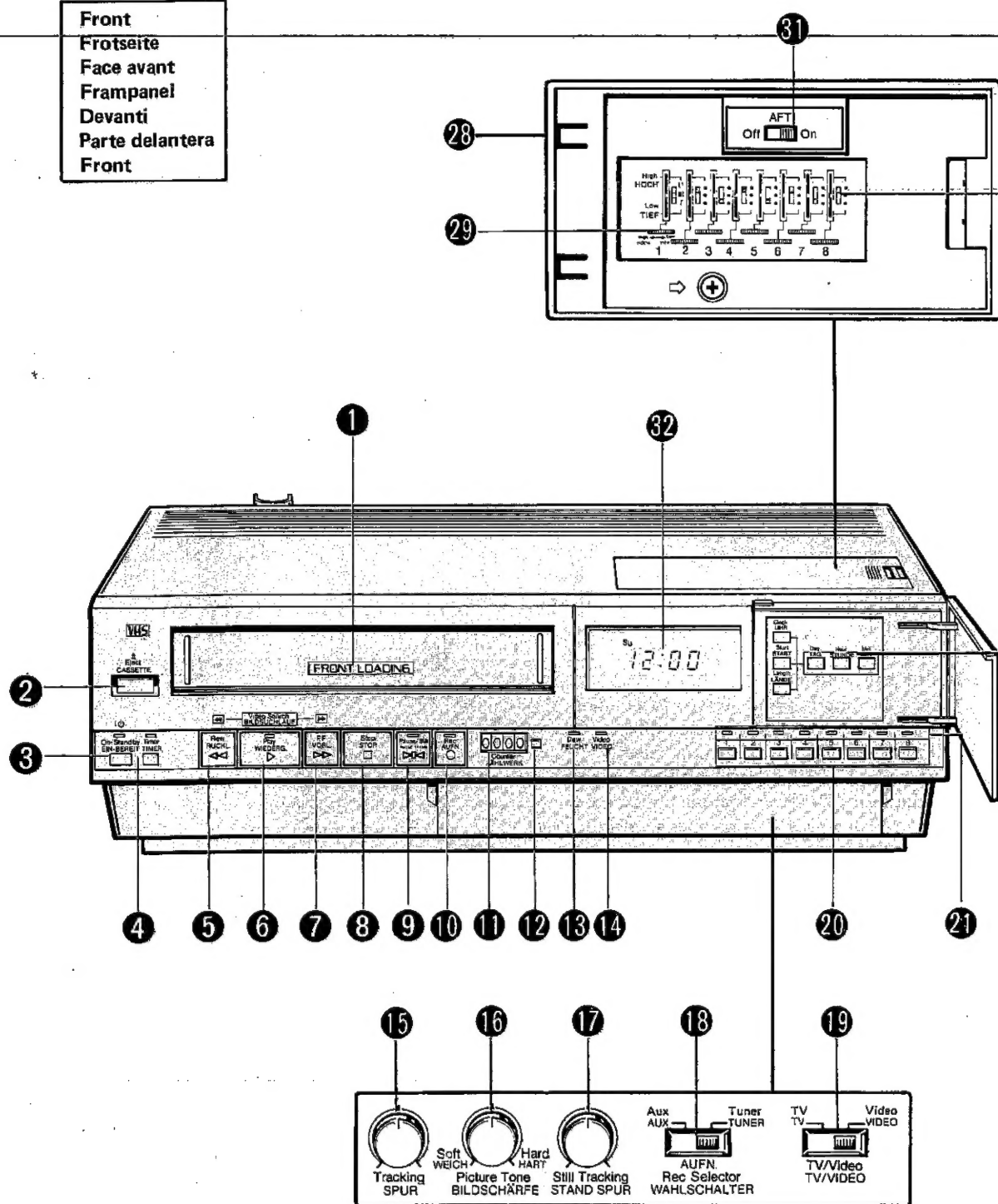
The cassette must be inserted right side up into the cassette holder.

Dew warning indicator

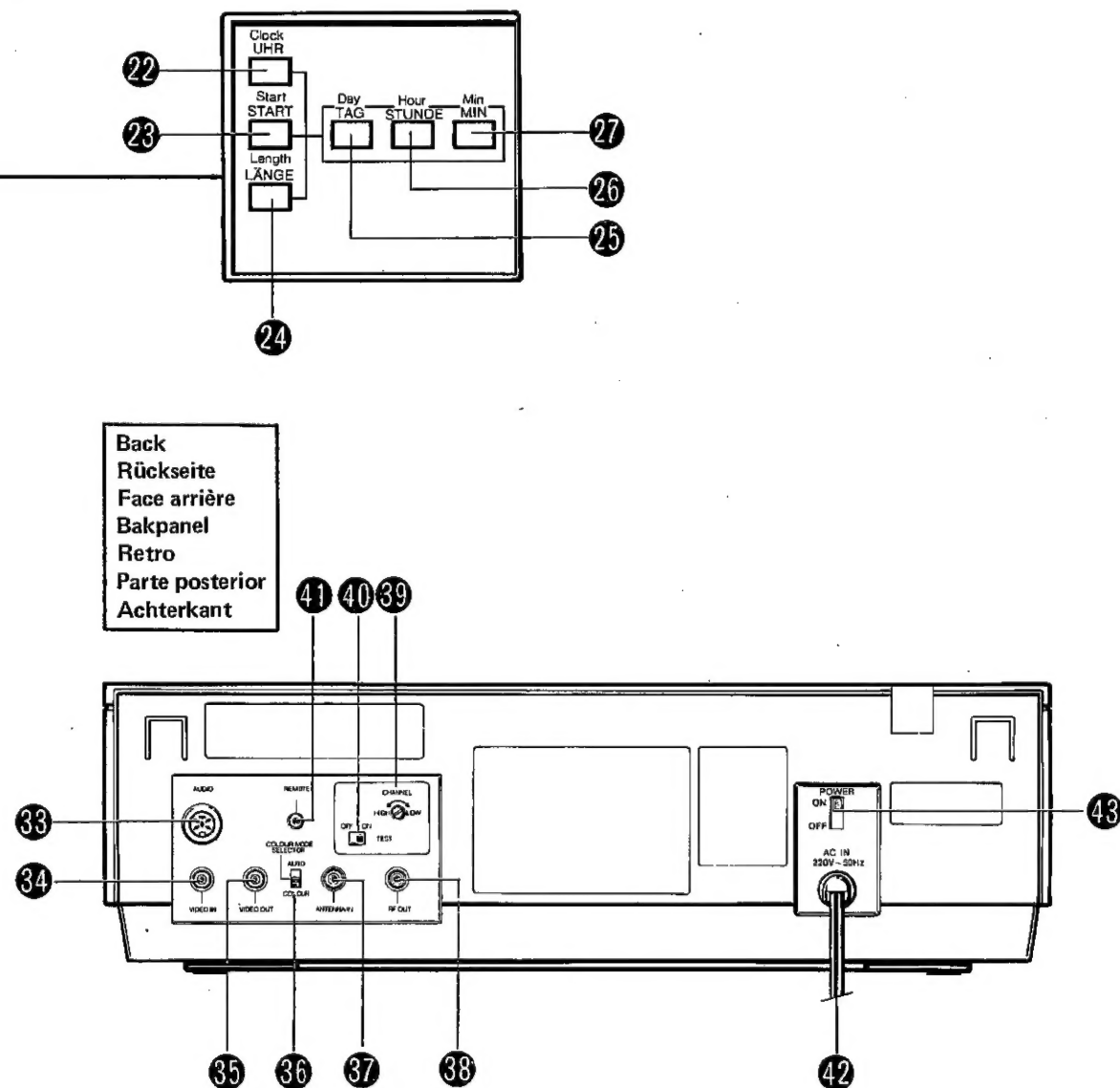
This Video Cassette Recorder is equipped with a heater which prevents dew condensation. If excessive moisture is present inside the unit, the dew indicator lamp goes on. While the lamp is lit, the safety device prevents the unit from operating. Moisture condensation may occur inside the unit when it is removed from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Should the lamp go on, simply wait until the dew is evaporated and the lamp will go off.



Front
Frotseite
Face avant
Frampanel
Devanti
Parte delantera
Front



Back
Rückseite
Face arrière
Bakpanel
Retro
Parte posterior
Achterkant



operating controls and functions

1 Cassette Tape Compartment

Used to load or unload a cassette tape.

2 Eject Button

Used to eject the loaded cassette from the VTR.

3 On-Standby Switch

With this button depressed (Indicator lights up), the unit is ready to operate. Pressing it again turns the unit off (Indicator goes off).

4 Timer Button

Set to "ON" position (Indicator lights up) for "Timer recording".

5 Rewind/Video Search ◀◀ Button

Pressing this button allows tape rewinding to start. In play mode ("Play" button at the "ON" position), high-speed playback in the reverse direction is possible after pressing this button once.

6 Play Button

Pressing this button allows the prerecorded tape to be played back.

7 Fast Forward/Video Search ▶▶ Button

Pressing this button allows fast forward operation to be performed. In play mode ("Play" button at the "ON" position), high-speed playback in the forward direction is possible after pressing this button once.

8 Stop Button

Used to stop the operation of "Playback", "Recording", "Fast Forward", "Rewind", and "Video Search".

9 Pause/Still Button

Pressing this button during recording or playback causes the Indicator to light up and tape travel to temporarily stop. Still picture can be seen by pushing this button during playback.

10 Record Button

Pressing this button allows the Indicator to light up and recording to start.

11 Tape Counter

4 digits display of tape travel.

12 Tape Counter Reset Button

Pressing this button resets the display to "0000".

13 Dew Indicator Lamp

Lights up if excessive moisture is present inside the unit. The protection device will prevent operation of the unit until the dew evaporates.

14 Video Indicator Lamp

This lamp lights up when the "TV/Video" selector is switched to the "Video" position and when the play button is pressed.

15 Tracking Control

Eliminates noise bars and black streaks from the played-back picture.

16 Picture Tone Control

Used to adjust the tone of the picture, from "Hard" to "Soft". This picture tone control is possible only with the RF signal output. The video signal output cannot be controlled.

17 Still Tracking

This control is used to clear noise bars when watching still pictures.

18 Rec Selector (Aux/Tuner)

Used to select the signal to be recorded. Turn the selector to "Tuner" position for recording a TV signal from the antenna input terminal and "Aux" position for recording a "Video signal" from the video-in terminal on the rear panel.

19 TV/Video Selector Switch

In order to use the VTR channel selector button to select the channels for television viewing, set this selector to the "Video" position (right side). In order to use the channel selector of the television for this purpose, set this selector to the "TV" position (left side).

20 Channel Selector Button

Used to change the tuner built into the VTR to any required channel.

21 Channel Indicator

Pressing "channel selector button" causes the lamp corresponding to the button to light up.

22 Clock Button

With this button depressed, "actual time" can be set by pushing the "Day", "Hour" and "Min" buttons.

23 Start Button

With this button depressed, "Timer Start" time can be set by pushing the "Day", "Hour" and "Min" buttons.

24 Length Button

Pressing this button and the "Hour" or "Min" button simultaneously sets the length of timer recording time.

25 Day Button

Used to set "Actual time" or "Timer start time". Press this button and the "Clock" or "Start" button simultaneously to set the "Day of the Week".

26 Hour Button

Used to set "Actual time" or "Timer Start time" "Timer length time". Press this button and the "Clock" or "Start" or "Length" button simultaneously to set the "Hours".

27 Min Button

Used to set "Actual time" or "Timer start time" "Timer length time". Press this button and the "Clock" or "Start" or "Length" button simultaneously to set the "Minutes".

28 Tuner Presetting Cover

Pulling its right end towards you opens the cover.

29 Preset Tuning Control

Tunes in to the channel corresponding to "Channel Selector Button".

30 Band Selector

One of the three position should be selected according to the receiving TV channel.

31 AFT Switch

When performing "preset tuning control" set the "Off" position. When "preset tuning control" is completed, reset to the "On" position.

32 Digital Clock Timer

Digital displays of "actual time" or "timer time" in a 24-hours format.

33 Audio Input/Output DIN Socket

For connection of a tape recorder or other audio equipment.

34 Video In

For connection of video camera or other external video equipment.

35 Video Out

This terminal supplies video signals.

36 Colour Mode Switch

Turn the switch to "Auto" position in any area of strong TV signal and to "Colour" position in areas of weak TV signal.

37 Antenna In (VHF/UHF)

For connection of the aerial cable.

38 RF Out

Use the coaxial connector cable (Provided) to connect the antenna terminal of a TV receiver to this socket.

39 RF Converter Out Channel Adjuster

Preset to UHF channel 36 prior to shipment. This should only be adjusted if interference is present due to transmissions on this channel.

You may prefer to consult your dealer before making this adjustment.

40 Test Switch

With the switch turned on position, the broadcasting unit built into the VTR will transmit a test picture. Use this signal to tune the VTR channel of the TV receiver.

41 Remote Socket

For connection of the pause plug of video camera or "remote control".

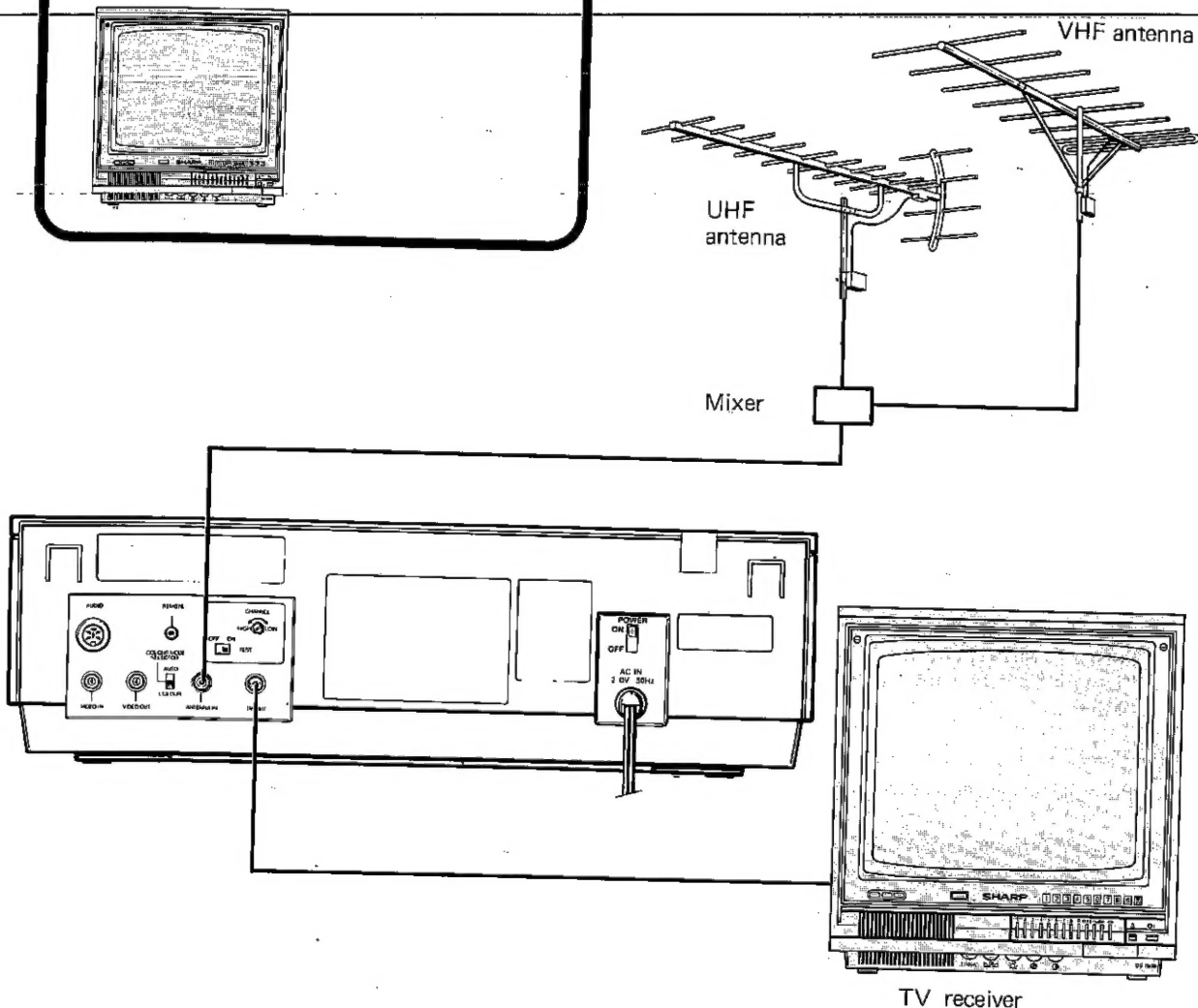
42 AC Power Supply Cord

Supplies power to the unit when connected to a mains socket.

43 Power Switch (Mains Switch)

To switch the Power supply to the VTR ON or OFF.

Connection diagram



Remove the VHF/UHF TV aerial coaxial cable from the TV receiver and connect to the VTR as shown in the drawing. The VTR is then ready to receive off the air programmes.

Connect the VTR to the TV receiver using the aerial cable (provided) as shown in the drawing. The TV receiver is then ready to receive TV broadcast programmes as well as video cassette programmes from VTR.

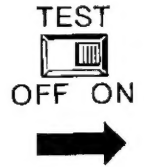
Even if you are not using the VTR, the "Mains" switch (at rear) should be set on in order to be able to view TV broadcast Programmes with this connection.

Note

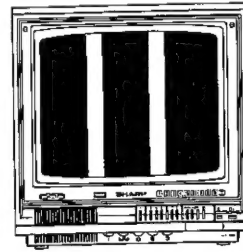
In weak signal areas, it may be necessary to utilise a signal booster or to use a high gain aerial.

TV receiver adjustment

- 4 Set the "TEST" switch to "ON" position.



- 5 Adjust the AV or video channel of the TV receiver until the TV picture transmitted from the broadcasting unit built into the VTR is satisfactory. Then turn "TEST" switch to "OFF" position.

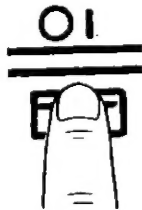


The built-in RF converter allows playback of a recording through a TV receiver. The signals from the RF connector can be viewed through the same UHF channel as on the RF converter. To view video cassettes, always set the TV channel selector of the TV receiver to the same UHF channel as on the RF converter.

■ TV Receiver and RF converter adjustment

The output of a built-in RF converter is factory set to UHF channel 36. Use the broadcasting unit built into the VTR and adjust the TV receiver to the output of the RF converter at UHF channel 36.

- 1 Turn the TV receiver on and select the so-called AV or video channel or any other unused preset which is reserved for use with the VTR.



- 2 Turn the VTR mains switch on and (push) the "On-Standby Switch" to the "ON" position.

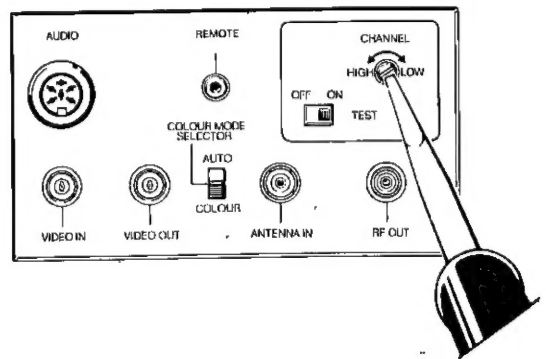


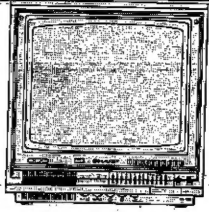
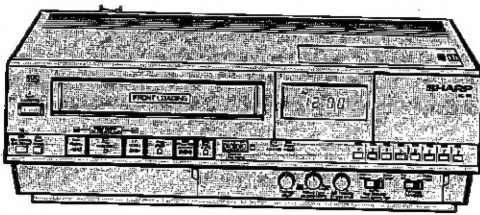
- 3 Select the "TV/Video" switch to "Video" position when the indicator will illuminate.



Note

If UHF CH36 is used for TV broadcasting in your area and there is a moire pattern or other effects on the picture, set the RF converter output to another channel by turning the RF converter channel adjuster. Then repeat the TV receiver adjustment described above. You may prefer to consult your dealer before making this adjustment.

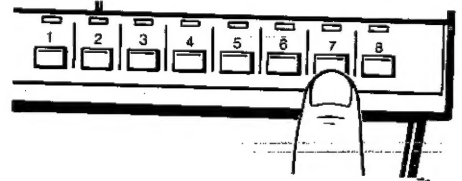




The VC-381 GS/GB/S/N incorporates a complete television tuner with the required tuning controls. Once you have pre-tuned to eight preferred stations you can select one of them by merely pressing one of the push button on channel selectors.

Built-in tuner presetting

- 6** Press the "channel selector button" for any required channel.



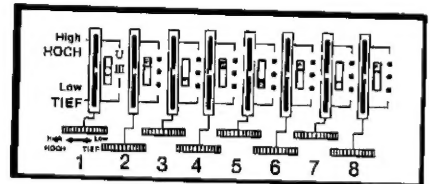
7

VC-381 GS/GB/N			
Desired channel			Band selector position
VHF 2-4 channel	I		I Set the switch to the front position
VHF 5-12 channel	III		III Set the switch to the centre position
UHF 21-69 channel	U		U Set the switch to the rear position

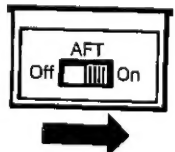
VC-381S			
Desired channel			Band selector position
VHF 2-4 channel + CATV	VL		VL Set the switch to the front position
VHF 5-12 channel + CATV	VH		VH Set the switch to the centre position
UHF 21-69 channel + CATV	U		U Set the switch to the rear position

(VC-381S 12 buttons)

- 8** Turning the "preset tuning control" corresponding to the button pressed in step 6, adjust so that a clear picture of the required channel appears on the TV screen. (Repeat steps 8 and 6 above to set each individual channel)



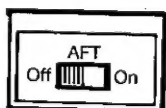
- 9** Turn the "AFT" switch to "On" position.



- 4** Open the "channel preset tuning cover".



- 5** Turn the "AFT" switch to "Off" position.



- 10** Close the "channel preset tuning cover".

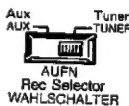


VTR adjustment

- 1** Turn the unit on and Select the "TV/Video" switch to "Video" position when the indicator will illuminate.



- 2** Set the "Rec Selector" to "Tuner" position.



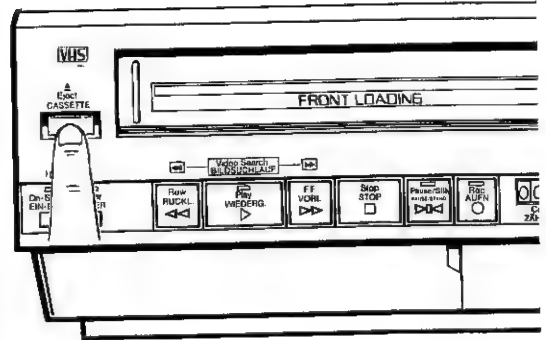
- 3** Turn TV receiver on and select your chosen video channel.



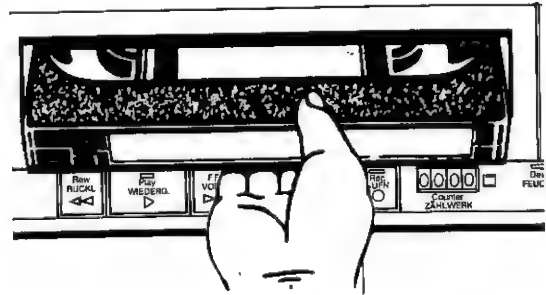
Loading of video cassettes

■ Cassette removal

- 1 Press the "Eject" button to automatically eject the loaded cassette.



- 2 Manually remove the cassette.



- 3 Cassette access door closes automatically.

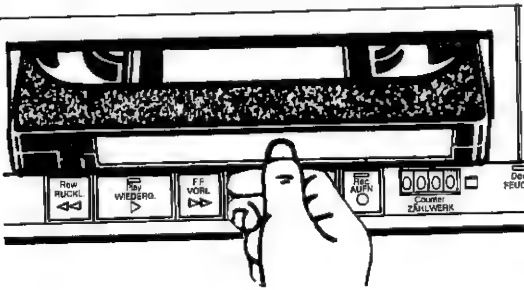
Note:

The unit is equipped with a device that prevents loading another video cassette when one is already loaded in the VTR.

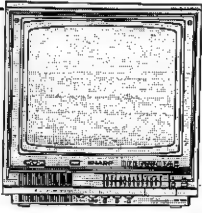
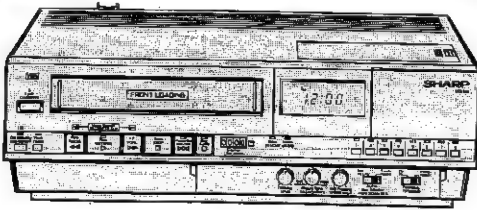
VHS video cassettes are the only type of tape that can be used in this unit.

■ Cassette insertion and loading

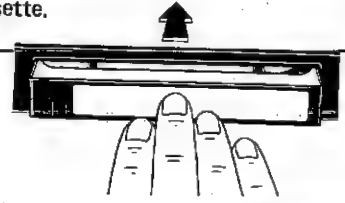
Press a video cassette tape into the "Cassette compartment access door" (which is pressed inward to open). Pushing the cassette all the way allows the tape to be automatically loaded.



Recording TV programmes



- 6** Insert the cassette.



- 7** Push the "Rec" button.



- 8** To stop recording briefly, push the "Pause/Still" button.

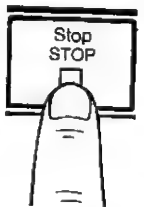


- 9** To start recording again, push the "Pause/Still" button which will be released, and recording will continue.



(If the "Pause" condition continues for more than 4 to 5 minutes, the "Pause/Still" mode will disengage automatically to avoid damage to the tape or drive components, and recording will start again).

- 10** To stop recording, push the "Stop" button.

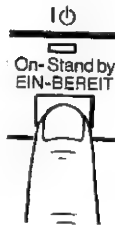


Note:

If a clear picture or correct colour is not obtained on the TV set after step 4, re-perform tuning in the manner described in "TV receiver adjustment" and "Built-in TV tuner pretuning".
If the end of the tape is reached during recording it will automatically be rewound to the beginning and the machine will stop.

Recorder

- 1** Turn the unit on (Turn the "Mains Switch" on the rear of the unit to "ON" position and further push the "On-Standby" button on the front to "ON" position.)



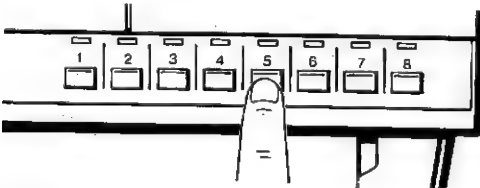
- 2** Set the "Rec Selector" to "Tuner" position.



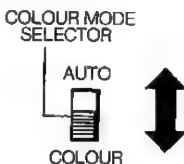
- 3** Select the "TV/Video" switch to "Video" position.



- 4** Select the channel to be recorded.

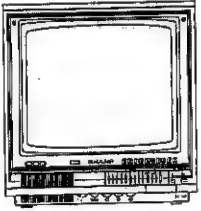
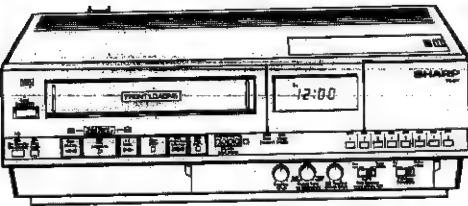


- 5** If the TV signal to be recorded is weak, set the "COLOUR MODE SELECTOR" button to the "Colour" position, otherwise set it to the "Auto" position.



Playback

Video Searching and Still Picture Viewing.



■ TV Receiver

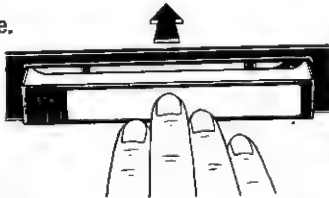
- 1 Select the chosen video Channel.

10 AV



■ Recorder

- 1 Insert the cassette.



- 2 Push the "Play" button.



- 3 High-speed playback in forward direction is possible by pushing the "Video Search (▶)" button once.
(Then, several noise bars appear but this is not an indication of trouble.)



- 4 High-speed playback in reverse direction is possible by pushing the "Video Search (◀)" button once.
(Several noise bars appear but this is not an indication of trouble.)



- 5 To return from high-speed playback to the normal play mode push the Play button once.



- 6 To see the still picture, push the "Pause/Still" button.



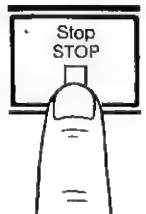
- 7 To clear noise bars that appear while viewing still frame, continue to operate the "Pause/Still" button "ON-OFF" while rotating the "Still Tracking" control until the noise bars disappear from the screen.



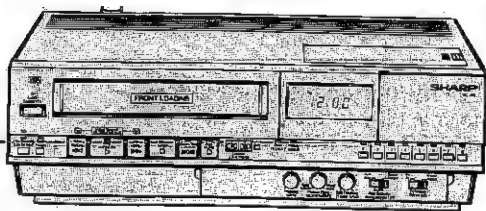
- 8 To resume normal play push the "Pause/Still" button again.



- 9 To stop play back, push the "Stop" button.



Tracking control, Tape counter Auto rewind mechanism



■ Tracking control



If there should be noise in the reproduced picture, rotate the "Tracking Control" in both directions till the picture is clear. The control is usually set to the centre auto position.

■ Tape counter



Pressing the "tape counter reset button" resets the tape counter to "0000" wherever the tape is positioned.

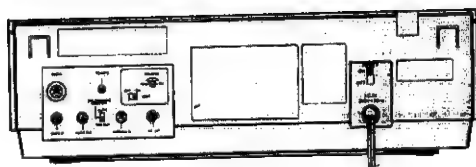
The 4-digit tape counter provides an easy and convenient way to index and then locate the beginning of specific programs or important segments of programs.

When the counter is reset to "0000" at the beginning of a video cassette, then by observing the counter reading at "points of interest" and noting that number those points can be relocated quickly and easily.

■ Auto rewind mechanism

When the tape comes to the end in "Play/Record/Video Search" mode, it stops running and is automatically rewound. The tape stops automatically after completion of rewinding.

Pause/Still, Remote control



■ Pause/Still

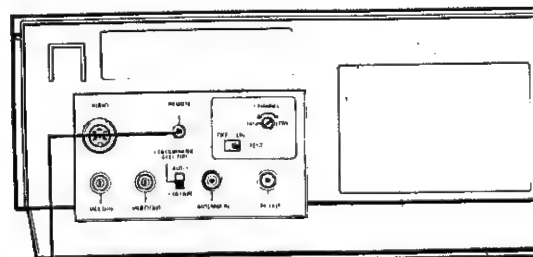
The "Pause/Still" button allows momentary stops to be made during record or playback without disengaging the operating mode.

The "Pause/Stop" Button can also be used to edit during recording. Commercials and other interruptions can be avoided by pressing the "Pause/Still" button at their start and pressing the button again when the programme resumes.

The "Pause/Still" mode will disengage automatically after 4 to 5 minutes to avoid damage to the tape or drive components.

■ Remote control

This VTR set is equipped with a VR-14MS/MB remote control terminal for "Pause/Still ON-OFF, Rewind, Fast Forward, Video Search (Forward-Reverse), Play and Stop" operations.



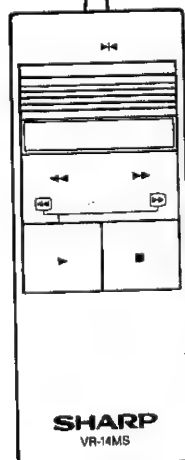
- ① Pause/Still
- Rewind
- Fast Forward
- Video Search (Reverse)
- Video Search (Forward)
- Play
- Stop

- ② VR-14MS For VC-381GS/N/S
VR-14MB For VC-381GB

- ③ The VR-14MS and VR-14MB units are provided with symbol marks (, , etc.), without function names written.

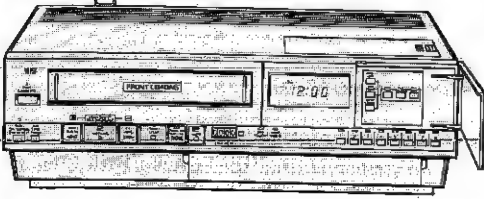
Note:

Remote control operation gives top priority to the Pause/Still Slide Switch. When the Pause/Still Slide Switch is turned on (side). The VTR does not operate even upon depression of the play button. To operate each remote control button, be sure to turn the Pause/Still Slide Switch to the "OFF" position (opposite).



VR-14MS/MB
(option VC-381GS/GB/N/S)


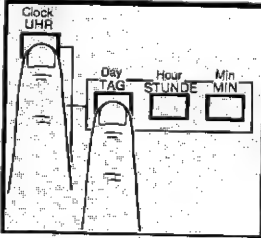

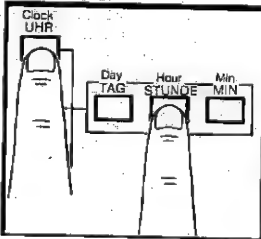

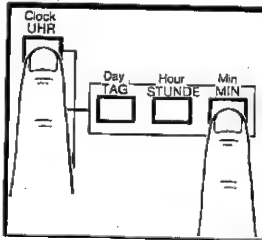

Clock setting



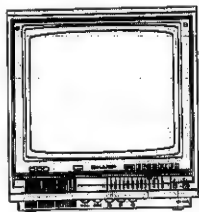
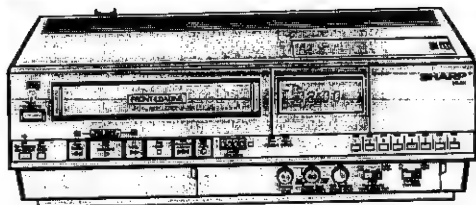
Actual time is digitally displayed in a 24-hour format.

The actual time display flashes at 0 : 00 Sunday when the AC plug of the unit is connected to the power socket or a power failure occurs. In this case, set the display to actual time again in steps in the paragraph "Clock Setting".

■ Example: To set actual time at 18 : 35 on Wednesday

	Step	Button operation	Display	Remarks
1	Insert the AC cord plug into the socket and turn the "POWER" switch on the rear of the unit to "ON" position.			su 0:00 begins flashing.
2	Press the "Clock" and "Day" buttons simultaneously to set the day of the week to Wednesday (WE). Release the "Day" button immediately when WE is displayed.			
3	Press the "Clock" and "Hour" buttons simultaneously to set the "Hour" digits to 18. Release the "Hour" button immediately when 18:00 is displayed.			
4	Press the "Clock" and "Min" (Minute) buttons simultaneously to set the "Minute" digits to 35. Release the "Min" (Minute) button immediately when 18:35 is displayed.			

Watching one channel while recording another channel



■ TV Receiver

- 1 Select the chosen video channel.



■ Recorder

- 1 Set the "Rec selector" to "Tuner" position.



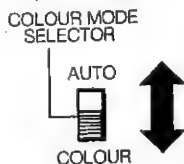
- 2 Select the "TV/Video" switch to "Video" position.



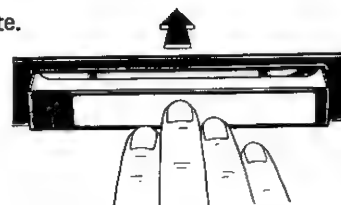
- 3 Select the channel to be recorded.



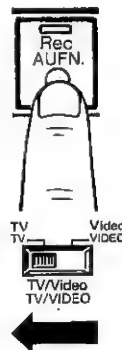
- 4 If the TV signal to be recorded is weak, turn the "COLOUR MODE SELECTOR" to the "COLOUR" position, otherwise set it to the "AUTO".



- 5 Insert the cassette.



- 6 Push the "Record" button.



- 7 Select the "TV/Video" switch to "TV" position.

■ TV Receiver

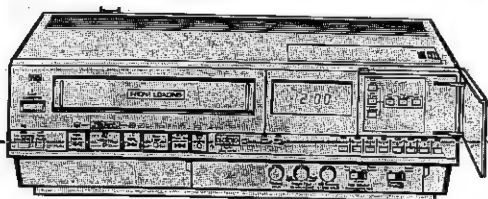
- 2 Select the TV channel selector you wish to view.



Note

For monitoring the programme being recorded, change the channel on the TV receiver to the chosen video channel and select the "TV/Video" switch "Video" position.

Timer recording



Unattended recording is possible using the built-in timer to record one programme (from the start to the end) within a period of 7 days.

■ Recorder

- 1 Set the "Rec Selector" to "Tuner" position.



- 2 Select the "TV/Video" switch to "Video" position.



- 3 Set the "Start time" and "Recording length time" for timer recording.

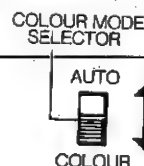
Example:

Programming a 20 minute timer recording starting at 9:05 on Thursday when actual time is 18:15 on Sunday. (See page 18.)

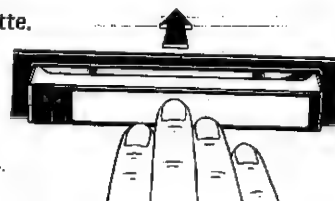
- 4 Select the channel to be recorded.



- 5 If the TV signal to be recorded is weak, turn the "COLOUR MODE SELECTOR" to the "COLOUR" position, otherwise set it to the "AUTO" position.



- 6 Insert the cassette.



- 7 Turn the unit off.



- 8 Turn the "Timer" switch to "ON". (The "Timer" indicator lights up to indicate that the timer is on.)

Note:

- If the "Timer" indicator will not light up when the "Timer" switch is set to on, please check for the following possible causes.
 - 1 No cassette inserted in machine.
 - 2 The cassette inserted in the machine has had its erase prevention tab removed. In this case either use another cassette, or cover the hole with a piece of adhesive tape.
- To alter a previously inserted programme insert the new programme. This will automatically cancel the previous programme.
- It must be done before the new timer start time.

■ Example:


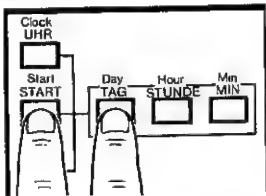

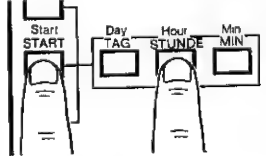

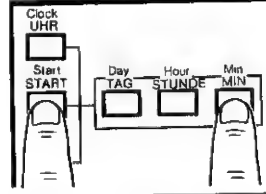

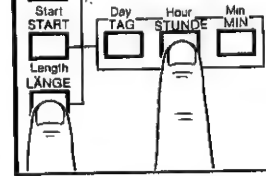

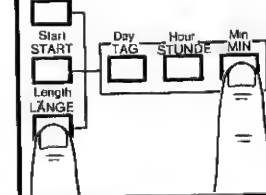

To programme a 20 minute timer recording starting at 9:05 on Thursday when actual time is 18:15 On Sunday.

■ Daily Programme

To record a programme at the same time every day over a seven day period. Press the "Start" and "Day" button repeatedly until all of the day indications are lit in step 1 below. Then follow instructions 2-5 in order to set start and record length.

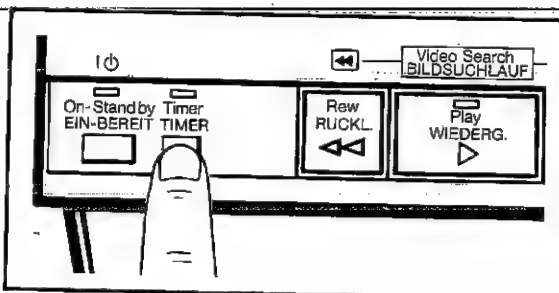
Note:

If no record length is programmed the recording will continue to the end of the tape.

	Step	Button Operation	Display
1			
2	Press the "Start" and "Day" buttons simultaneously to set the day of the week to Thursday (TH). Release the "Day" button immediately when TH is displayed.		
3	Press the "Start" and "Hour" buttons simultaneously to set the "Hour" digits to 9. Release the "Hour" button immediately when 9:00 is displayed.		
4	Press the "Start" and "Min" (Minute) buttons simultaneously to set the "Minute" digits to 05. Release the "Min" button immediately when 9 : 05 is displayed.		
5	Press the "Length" and "Hour" buttons simultaneously to set the "Hour" digits to 0. Release the "Hour" button immediately when 0:00 is displayed.		
6	Press the "Length" and "Min" (Minute) buttons simultaneously to set the "Minute" digits to 20. Release the "Min" button immediately when 0 : 20 is displayed.		

Recall memory Canceling the timer operation

■ Canceling the timer operation

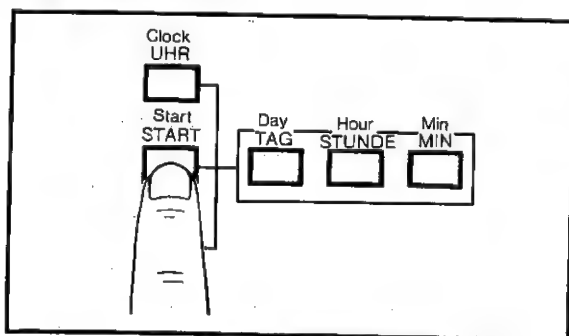


To cancel the timer operation, press the "Timer" button to "OFF" position.

Note:

Programme is not cleared by this operation.

■ Recall memory

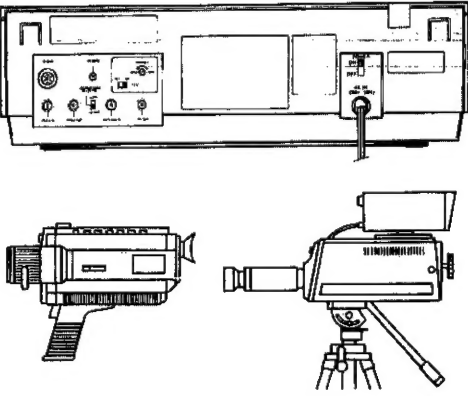


To recall and check the set programme contents, press the "Start" button to indicate the programme start time, and the "Length" button to indicate the recording length time.

Recording from a video camera

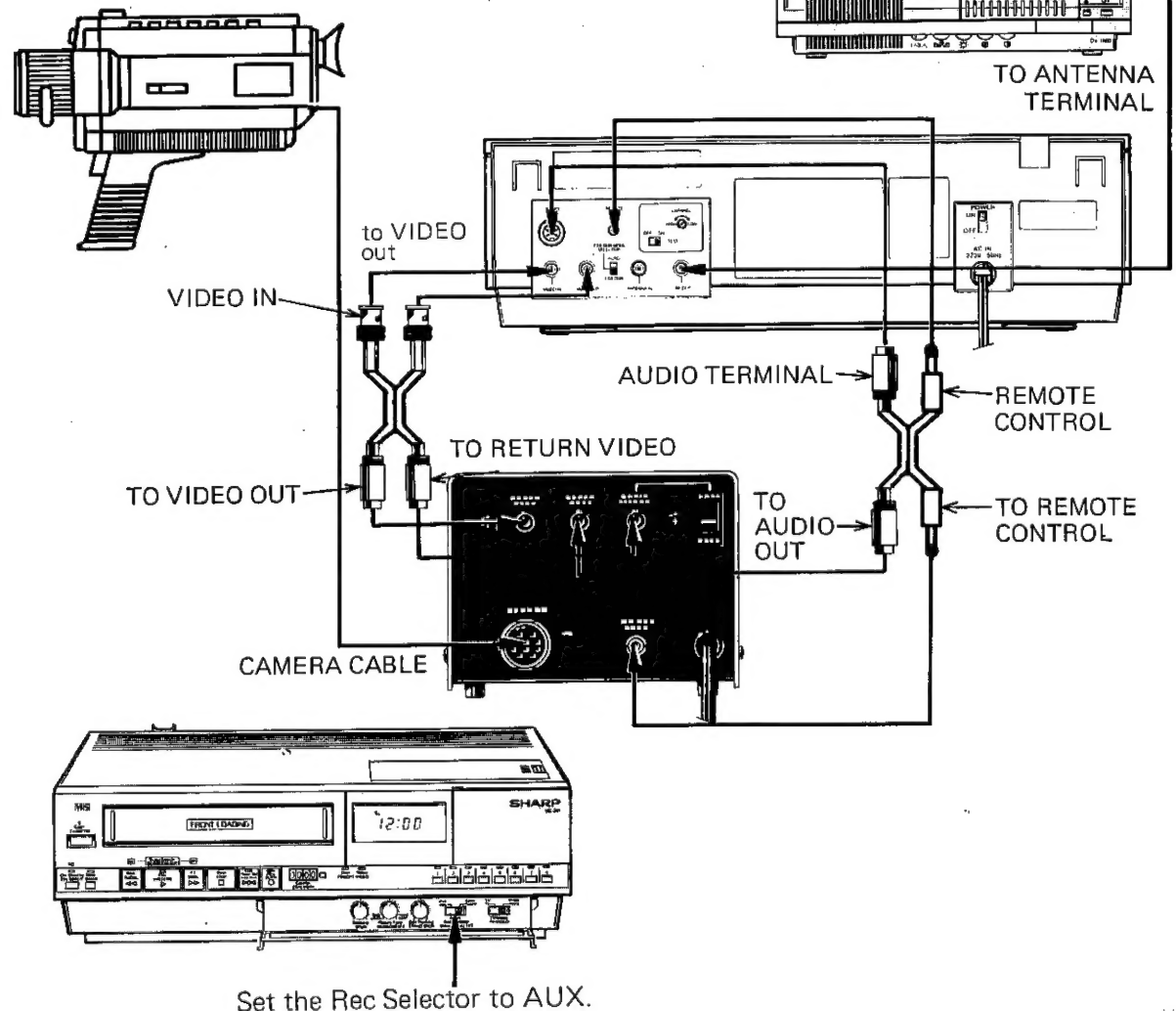
Read the operation manual for the video camera carefully before connection.

Connect the VTR, TV receiver, camera, etc., as shown in the illustration below. If the camera is equipped with remote control, connect it to the "REMOTE" socket on the rear panel for remote control recording with the start/stop switch of the camera.

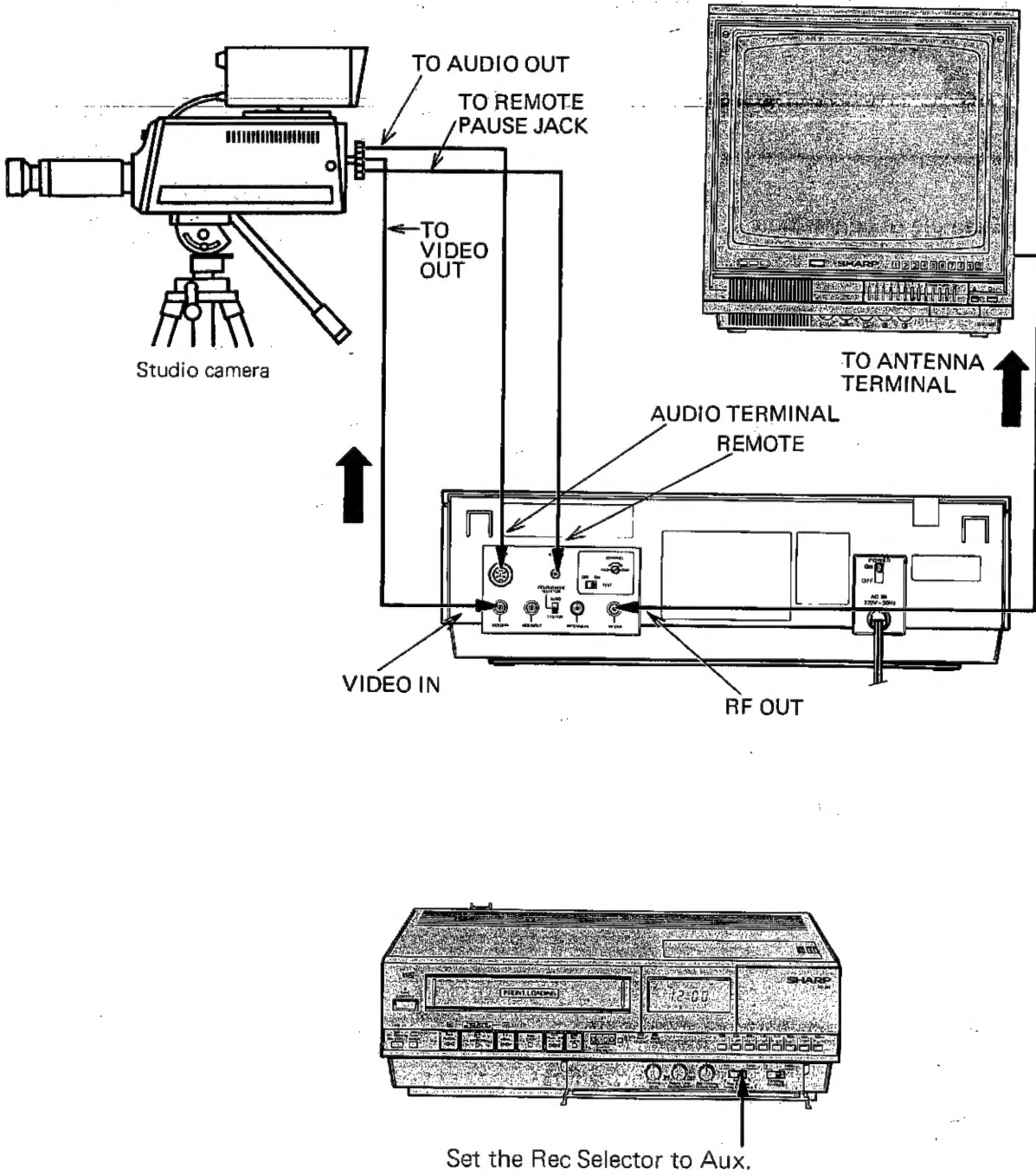


Example of connection

- (A) From a Portable Video camera with AC adaptor
Connection to the XC-35, XC-34, XC-33, XC-30,
XC-51 and XC-77 using AC adaptor.



(B) From a studio video camera



Checks before requesting service

Before calling for servicing, please check the following according to the troubleshooting table.

Problem	Possible reason
<ul style="list-style-type: none"> ● No power is fed to TV and VTR. 	<ul style="list-style-type: none"> ● Power supply plug is not inserted into power outlet.
<ul style="list-style-type: none"> ● Cannot Record. 	<ul style="list-style-type: none"> ● The erasure protection tab of the cassette is broken off.
<ul style="list-style-type: none"> ● Playback does not produce picture. 	<ul style="list-style-type: none"> ● Connection cable is disconnected. ● Video channel not set on TV correctly.
<ul style="list-style-type: none"> ● There are noise bars in the playback picture. 	<ul style="list-style-type: none"> ● Tracking control knob is off centre. If so, bring it to the centre dot position. If at the centre, turn it right or left to obtain a clear picture.
<ul style="list-style-type: none"> ● Rewinding is not possible. 	<ul style="list-style-type: none"> ● Tape has been rewound to start point.
<ul style="list-style-type: none"> ● Tape does not run with "Record" or "Play" button pushed. 	<ul style="list-style-type: none"> ● The "Pause" button on the VTR has been accidentally set. ● Improper use of the camera's remote control.
<ul style="list-style-type: none"> ● Neither "Record, Play, Fast-Forward or Rewind" button can be pushed. 	<ul style="list-style-type: none"> ● If the dew lamp is lit, wait until it is off.
<ul style="list-style-type: none"> ● TV broadcasts cannot be recorded. 	<ul style="list-style-type: none"> ● Rec Selector is in "Aux" position.
<ul style="list-style-type: none"> ● Tape does not run when using operating buttons on video camera. 	<ul style="list-style-type: none"> ● Improper use of the camera's remote control.
<ul style="list-style-type: none"> ● Picture on TV screen is noisy when watching TV. 	<ul style="list-style-type: none"> ● "TV/Video" switch is at "Video" position.

Specifications

Format:	VHS PAL standard
Video recording system:	Two rotary head helical scan system
Video signal:	PAL colour and B/W signals, 625 lines
Recording/playing time:	4 hours max. with SHARP E-240 tape
Tape width:	12.7 mm
Tape speed:	23.39 mm/sec.
Antenna:	75 ohm unbalanced
Receiving channel:	UHF channels 21 – 69, VHF 2 – 12
RF converter output signal:	UHF channel 30 – 39 (adjustable)
Power requirement:	AC 220V, 50Hz
Power consumption:	Approx. 32W (with anti-dew heater)
Operating temperature:	5°C to 40°C
Storage temperature:	–20°C to 55°C
Weight:	9.2 kg
Dimensions:	430 mm (W) x 362 mm (D) x 133 mm (H)
VIDEO	
Input:	1.0 Vp-p, 75 ohm
Output:	1.0 Vp-p, 75 ohm
AUDIO	
Input:	Line: –20 dB, more than 50k ohm
Output:	Line: –5 dB, less than 1k ohm
ACCESSORIES INCLUDED:	Antenna 75 ohm coaxial connector cable (plug provided) Owner's Manual
* As part of our policy of continuous improvement, we reserve the right to alter design and specifications without notice.	
Note:	The antenna must correspond to the new standard DIN 45325 (IEC 169-2) for combined VHF/UHF antenna with 75 ohm connector.